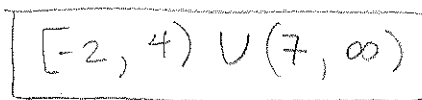


I. Convert each of the expressions involving x into interval notation. Then show answer on a number line.

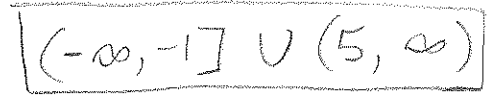
1. $x > 3$



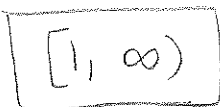
2. $-2 \leq x < 4$ or $x > 7$



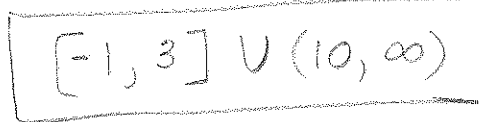
3. $x \leq -1$ or $x > 5$



4. $x \geq 1$

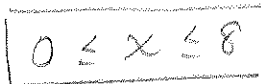


5. $-1 \leq x \leq 3$ or $x > 10$

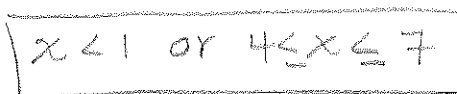


II. Convert each of the intervals into an expression involving x. Then show your answer on a number line.

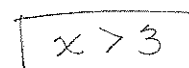
1. $[0, 8]$



2. $(-\infty, 1) \cup [4, 7]$



3. $(3, \infty)$

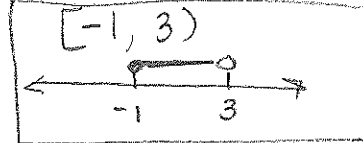


III. Solve each compound inequality. Write your answer in interval notation and graph the solution on a number line.

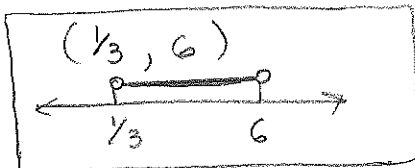
1. $3x + 1 < 4$ or $2(x - 5) > 8$



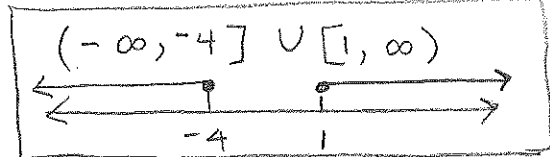
2. $-1 \leq 2x + 1 < 7$



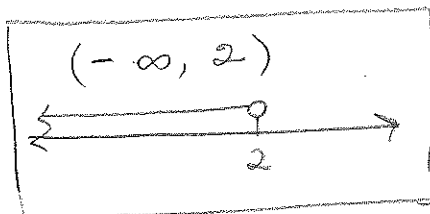
3. $4 > 5 - 3x > -13$



4. $x + 7 \leq 3$ or $5x + 5 \geq 10$



5. $5x - 12 < 13$ and $3x + 6 < 12$



6. $4(x - 5) \leq 2x - 20$ or $7x + 1 \geq 15$

